

10/539560

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Toshifumi YAMAKI et al.

Application No.:

Filed: June 17, 2005

For: NOVEL NITRILE HYDRATASE

) JC17 Rec'd PCT/PTO 17 JUN 2005

) Group Art Unit:

) Examiner:

) Confirmation No.:

FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

The listed documents were either cited in the specification or the International Search Report in the corresponding PCT application.

To assist the Examiner, the documents are listed on the attached form PTO-1449. Copies of the documents cited only in the specification are provided herewith along with abstracts and/or translations thereof. However, only translations of the documents cited in the Search Report are submitted as it is understood that the actual citations have already been transmitted by the International Bureau. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date June 17, 2005

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Substitute for form 1449A/PTO & 1449B/PTO

Complete if Known

FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1	Application Number	10/539560
				Filing Date	
				First Named Inventor	Toshifumi YAMAKI et al.
				Examiner Name	
				Attorney Docket Number	018765-218

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	5,334,519	A	Yamada et al.	08-02-1994
	6,730,508	B1	Ito et al.	05-04-2004

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
	09-275978	A	JP (corres to EP 0 790 310)	10-28-1997				X		X	X
	0 790 310*	A2	EP	08-20-1997							
	02-000470*	A	JP (corres to US 5,334,519)	01-05-1990						X	X
	04-211379*	A	JP (corres to EP 0 445 646)	08-03-1992						X	X
	0 445 646*	A2	EP	09-11-1991						X	X
	08-056684*	A	JP	03-05-1996	X					X	X
	11-253168*	A	JP (corres to US 6,730,508)	09-21-1999						X	X

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	KOBAYASHI et al., "Cloning, nucleotide sequence and expression in <i>Escherichia coli</i> of two cobalt-containing nitrile hydratase genes from <i>Rhodococcus rhodochrous</i> J1," <i>Biochim et Biophysica Acta</i> , Dec. 2, 1991, pp 23-33, Vol. 1129(1), Elsevier Science Publishers B.V.*
	HUANG et al., "Crystal structure of nitrile hydratase reveals a novel iron centre in a novel fold," <i>Structure</i> , 1997, pp 691-699, Vol. 5, No. 5*
	"Novel non-heme iron center of nitrile hydratase with a claw setting of oxygen atoms," <i>Nature Structural Biology</i> , May 1998, pp 347-351, Vol. 5, No. 5*
	MIYANAGA et al., "Crystal Structure of Cobalt-Containing Nitrile Hydratase," <i>Biochemical and Biophysical Research Communications</i> , 2001, pp 1169-1174, Vol. 288(5), Academic Press*

*Copy attached.

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.